

### ZONING DATA

DISTRICT: R-1 (RURAL RESIDENTIAL)							
	REQUIRED	LOT 1		LOT 2		LOT 3	
		PROVIDED	VAR. REQ'D	PROVIDED	VAR. REQ'D	PROVIDED	VAR. REQ'D
MIN. GROSS LOT AREA =	80,000 S.F.	*29,729 S.F.	50,271 S.F.	*47,770 S.F.	32,230 S.F.	*39,287 S.F.	40,713 S.F.
MIN. NET LOT AREA =	48,000 S.F.	*27,369 S.F.	20,631 S.F.	*43,061 S.F.	4,939 S.F.	*33,592 S.F.	14,408 S.F.
MINIMUM LOT WIDTH =	175'	*128'±	47'	*126'±	49'±	199'±	0
MINIMUM FRONT YARD =	45'	*43'	2'	72'±	0	51'±	0
MINIMUM SIDE YARD =	40'/80'	*20'/75'	20'/5'	45'/103'±	0	48'/148'±	0
MINIMUM REAR YARD =	50'	100'±	0	109'±	0	117'±	0
MINIMUM FRONTAGE =	70'	101'±	0	80'±	0	210'±	0
MAX. BLDG. HGT. =	35'	35'	0	35'	0	35'	0
FLOOR AREA RATIO =	N/A	N/A	0	N/A	0	N/A	0
MIN. LIVABLE FL. AREA =	1,200 S.F.	1,632 S.F.	0	1,632 S.F.	0	1,632 S.F.	0
MAX. DEV. COVERAGE =	20%	10%	0	9%	0	9%	0

\* VARIANCES GRANTED OCTOBER 27, 2008  
DEVELOPMENT COVERAGE SHOWN IS BASED ON NET LOT AREA

### TAX MAP NO.

SECTION: 74  
BLOCK: 1  
LOT: 4

### DEED

LIBER: 12347  
PAGE: 235

### MAP REFERENCE

BEING "THE LOT FOR PROPOSED OPEN PUBLIC SPACES" ON A MAP ENTITLED "TOLEMAN ESTATES", TOWN OF NEW WINDSOR, ORANGE COUNTY, NEW YORK. FILED IN THE ORANGE COUNTY CLERK'S OFFICE AS MAP NO. 2939 ON 2-22-73.

### TOTAL TRACT AREA

2.68± ACRES

### RECORD OWNER & SUBDIVIDER

EDWARD BIAGINI  
198 WOODCOCK MTN. ROAD  
WASHINGTONVILLE, NY 10992

### NOTES

- TOTAL NUMBER OF LOTS = 3
- TOPOGRAPHY BASED ON U.S.G.S. DATUM AND FIELD RUN 12-19-06. BY DANIEL P. YANOSH, L.S.
- LOTS TO BE SERVED BY INDIVIDUAL WELLS AND SEPTIC SYSTEMS.
- THE PROPOSED DRAINAGE EASEMENT SHALL BE MAINTAINED BY THE OWNERS OF LOT # 1, # 2, AND # 3 OF THIS SUBDIVISION. THE EASEMENT SHALL BE INCLUDED IN THE DEED FOR EACH LOT AND MAINTAINED THROUGH A LEGAL CONTRACT INVOLVING ALL THREE LOT OWNERS.

NEW WINDSOR PLANNING BOARD JOB NO. 08-04

TOWN OF NEW WINDSOR APPROVAL

### SKETCH PLAT

### SUBDIVISION FOR ED BIAGINI

TOWN NEW WINDSOR

ORANGE COUNTY NEW YORK

ZIMMERMAN ENGINEERING & SURVEYING, P.C.  
A DIVISION OF KC ENGINEERING AND SURVEYING, P.C.  
5 CORPORATE DRIVE SUITE 100  
CENTRAL VALLEY, NY 10917  
PHONE: (845)928-2265 FAX: (845)928-3780 E-MAIL: zimeng@frontiernet.net

I HEREBY CERTIFY THAT THE SEWAGE & WATER FACILITIES SHOWN ON THIS PLAT HAVE BEEN DESIGNED IN ACCORDANCE WITH THE STANDARDS & REQUIREMENTS PROMULGATED BY THE N.Y.S. DEPT. OF HEALTH & ENVIRONMENTAL CONSERVATION FOR RESIDENTIAL LOTS & FURTHER THAT SUCH DESIGN IS BASED UPON ACTUAL SOIL & SITE CONDITIONS FOUND UPON SUCH LOT AT THE DESIGN LOCATION AT THE TIME OF SUCH DESIGN.

I HEREBY CERTIFY THAT THIS MAP SHOWS THE RESULT OF AN ACTUAL FIELD SURVEY COMPLETED ON 12-19-06

DANIEL P. YANOSH P.L.S. LIC. NO. 49561



JONATHAN CELLA P.E. LIC. NO. 085069

- REVISIONS:
- 1/15/08 (ZONING DATA TABLE)
  - 2/29/08 (PB COMMENTS 2-27-08)
  - 8/6/08 PER ZBA COMMENTS
  - 11/3/08 FOR PLANNING BOARD WORK SESSION
  - 1/9/09 FOR PLANNING BOARD RESUBMISSION



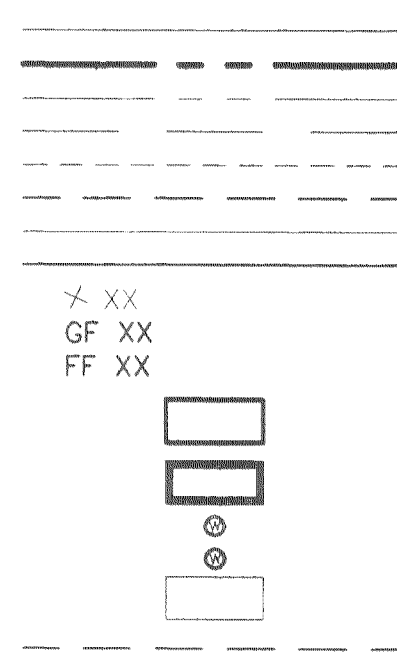
THERE ARE NO EXISTING  
WELLS WITHIN 200' DOWNHILL  
OR 100' UPHILL OF ANY PROPOSED SDS

LANDS NOW OR FORMERLY  
ANDERSON  
SECTION 52, BLOCK 1, LOT 35  
LIBER 4301 PAGE 235

THERE ARE NO EXISTING  
WELLS WITHIN 200' DOWNHILL  
OR 100' UPHILL OF ANY PROPOSED SDS

PROPERTY LINE EXISTING  
PROPERTY LINE PROPOSED  
PROPERTY LINE ADJOINING  
SETBACKS  
EXISTING CONTOURS 2'  
EXISTING CONTOURS 10'  
PROPOSED CONTOURS 2'  
PROPOSED CONTOURS 10'  
PROPOSED SPOT ELEVATION  
PROPOSED GARAGE FLOOR ELEVATION  
PROPOSED FIRST FLOOR ELEVATION

#### LEGEND



#### NOTES

1. THE SDS ON LOT #1 HAS BEEN REFERENCED FROM A PLAN TITLED  
"HIGHVIEW ESTATES, INC. LITTLE BROOK COURT, SANITARY DISPOSAL PLAN,"  
DATED FEBRUARY 13, 2007 AND PREPARED BY CUOMO ENGINEERING. THESE  
PLANS WERE APPROVED BY THE TOWN OF NEW WINDSOR BUILDING DEPARTMENT  
AND A BUILDING PERMIT WAS ISSUED FOR ITS CONSTRUCTION.

#### STANDARD NOTES:

THE DESIGN, CONSTRUCTION, AND INSTALLATION OF THE SDS AND  
ITS APPURTENANCES SHALL BE ACCORDANCE WITH THIS PLAN AND  
AND GENERALLY ACCEPTED STANDARDS IN EFFECT AT THE TIME  
OF CONSTRUCTION WHICH INCLUDE:

"APPENDIX 75 - A, WASTE TREATMENT - INDIVIDUAL HOUSEHOLD  
SYSTEMS, NEW YORK STATE SANITARY CODE."  
"WASTE TREATMENT HANDBOOK, INDIVIDUAL HOUSEHOLD SYSTEMS,  
NEW YORK STATE DEPARTMENT OF HEALTH."  
"RURAL WATER SUPPLY, NEW YORK STATE DEPARTMENT OF HEALTH."  
"PLANNING THE SUBDIVISION AS PART OF THE TOTAL ENVIRONMENT,  
NEW YORK STATE DEPARTMENT OF HEALTH."  
"THIS PLAN IS APPROVED AS MEETING THE APPROPRIATE AND APPLIED  
TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES FOR  
ARRANGEMENT OF SEWAGE DISPOSAL AND TREATMENT AND WATER  
SUPPLY FACILITIES."

ALL WELL AND SDS EXISTING OR APPROVED WITHIN 200' OF THE  
PROPOSED WELLS AND SDS ARE SHOWN ON THIS PLAN ALONG WITH  
ANY OTHER ENVIRONMENTAL HAZARDS IN THE AREA THAT MAY AFFECT  
THE DESIGN AND FUNCTIONALITY OF THE SDS AND WELL.

IT SHALL BE DEMONSTRATED BY THE CONTRACTOR TO THE CERTIFYING  
ENGINEER THAT THE SEPTIC TANK IS SEALED, WATERTIGHT, AND  
ACCEPTABLE FOR USE. THIS SHALL REQUIRE AS A MINIMUM, THE  
FILLING OF THE TANK WITH WATER TO OBSERVE IF IT IS IN FACT SEALED,  
WATERTIGHT AND ACCEPTABLE FOR USE.

ALL PROPOSED WELLS AND SERVICE LINES ON THIS PLAN ARE ACCESSIBLE  
FOR INSTALLATION AND PLACEMENT.

INDIVIDUAL WELLS AND SEWAGE DISPOSAL SYSTEMS SHALL NO LONGER  
BE CONSTRUCTED OR USED FOR HOUSEHOLD OR COMMERCIAL PURPOSES  
WHEN PUBLIC FACILITIES BECOME AVAILABLE. CONNECTION TO THE PUBLIC  
SEWER SYSTEM IS REQUIRED WITHIN 1 YEAR OF AVAILABILITY.

THE APPROVED PLANS MUST BE FILED WITH THE COUNTY CLERKS OFFICE  
PRIOR TO OFFERING LOTS FOR SALE AND WITHIN 90 DAYS OF THE LAST  
APPROVAL OF THE FINAL PLANS.

A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER SHALL INSPECT THE  
SANITARY FACILITIES (WATER SUPPLY AND SEWAGE DISPOSAL SYSTEM) AND  
PERCOLATION TEST SEPTIC SYSTEM FILL (IF ANY) AT THE TIME OF CONSTRUCTION.  
PRIOR TO ISSUANCE OF A C.O. THE ENGINEER SHALL CERTIFY TO THE MUNICIPALITY  
AND THE LOCAL CODE ENFORCEMENT OFFICER, THAT THE FACILITIES ARE INSTALLED  
IN CONFORMANCE WITH THE APPROVED PLANS, THAT ANY SEPTIC TANK JOINTS ARE  
SEALED AND TESTED FOR WATER TIGHTNESS, AND THAT SEPTIC SYSTEM FILL (IF ANY)  
IS ADEQUATE FOR THE SYSTEM.

#### SEPTIC SYSTEM GENERAL NOTES:

- ALL PORTIONS OF THE SEPTIC FIELD WILL BE A MINIMUM DISTANCE OF 200'  
UP SLOPE AND 100' DOWN SLOPE FROM ANY WELL.
- THE SEPTIC TANK SHALL BE LOCATED A MINIMUM DISTANCE OF 10' FROM  
ANY BUILDING OR PROPERTY LINE.
- CELLAR DRAINS, ROOF DRAINS, OR FOOTING DRAINS SHALL NOT BE DISCHARGED  
IN THE VICINITY OF THE SDS.
- SWIMMING POOLS, DRIVEWAYS, OR STRUCTURES THAT MAY COMPACT THE SOIL  
SHALL NOT BE CONSTRUCTED OVER ANY PORTION OF THE SDS.
- SDS TRENCHES ARE NOT TO BE INSTALLED IN WET SOIL.
- THE BOTTOMS AND SIDES OF TRENCHES SHALL BE RAKED PRIOR TO INSTALLATION  
OF GRAVEL AND PERFORATED PIPE.
- ALL PIPE PENETRATIONS INTO THE SEPTIC TANK AND DISTRIBUTION BOX ARE  
TO BE GROUTED.
- DISTRIBUTION LINES ARE TO BE CAPPED.
- THE PERIMETER OF THE ABSORPTION FIELD SHALL BE GRADED TO DIVERT SURFACE WATER.
- ALL DISTURBED AREAS SHALL BE IMMEDIATELY STABILIZED UPON COMPLETION  
OF SDS CONSTRUCTION WITH GRASS SEED AND MULCH.
- SEWAGE SYSTEMS SHALL BE PLACED A MINIMUM OF 35' FROM ANY OPEN DRAINAGE DITCH.
- ALL LAUNDRY WASTES AND KITCHEN WASTES SHALL BE DISCHARGED INTO THE  
SEWAGE DISPOSAL SYSTEM.
- BENDS SHALL NOT BE USED WHEN ENTRANCE OR EXIT FROM SEPTIC  
TANK IS OVER 15'. CLEANOUTS SHALL BE INSTALLED AT ALL OTHER BENDS.
- THE DESIGN AND LOCATION OF THE SANITARY FACILITIES SHALL NOT BE CHANGED  
WITHOUT RESUBMISSION TO THE REVIEWING AUTHORITY FOR APPROVAL.
- HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE ABSORPTION FIELD  
EXCEPT DURING THE ACTUAL INSTALLATION AND CONSTRUCTION. THERE SHALL BE  
NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE PROXIMITY OF THE  
ABSORPTION FIELD BEFORE, DURING, OR AFTER CONSTRUCTION.
- THIS SYSTEM WAS NOT DESIGNED TO ACCOMMODATE GARGAGE GRINDERS, JACUZZI TYPE  
SPA TUBS OVER 100 GALLONS, OR WATER CONDITIONERS. THEREFORE THESE ITEMS SHALL  
NOT BE INSTALLED UNLESS THE SYSTEM IS REDESIGNED TO HANDLE THEM.
- THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK (OR  
ANY PUMPING OR DOSING CHAMBER) TO THE BUILDING ALLOWING SEPTIC GASES TO DISCHARGE  
THROUGH THE VENT STACK.
- THE PURCHASER OF THIS LOT SHALL BE PROVIDED WITH A COPY OF THE APPROVED  
PLANS AND AN ACCURATE AS BUILT DRAWING OF ANY EXISTING SANITARY FACILITIES.

#### SOIL TESTING WITNESSED BY M.H.E.

##### LOT # 2 SOIL TEST DATA

###### PERCOLATION TESTS

P7 12" DEEP 11/7/08  
START 8:15 9:36 9:53  
FINISH 8:27 9:50 10:17  
TIME 0:12 0:17 0:17  
STABILIZED PERC. RATE = 17 MINUTES

P8 12" DEEP 11/7/08  
START 8:28 9:24 9:50  
FINISH 8:47 9:50 10:17  
TIME 0:19 0:28 0:27  
STABILIZED PERC. RATE = 27 MINUTES

###### DEEP HOLE TESTS

D7 3'-4" DEEP 11/7/08  
0-8" TOPSOIL  
8"-40" SILTY CLAY LOAM  
NO ROCK, NO WATER, NO MOTTLING

D8 2'-9" DEEP 11/7/08  
0-6" TOPSOIL  
6"-33" SILTY CLAY LOAM  
NO ROCK, NO WATER, NO MOTTLING

##### LOT # 3 SOIL TEST DATA

###### PERCOLATION TESTS

P5 24" DEEP 11/7/08  
START 9:00 9:01 9:02 9:03 9:06  
FINISH 9:01 9:02 9:04 9:05 9:08  
TIME 0:01 0:01 0:02 0:02 0:02  
STABILIZED PERC. RATE = 2 MINUTES

P6 12" DEEP 12/9/08  
START 1:37 1:40 1:43  
FINISH 1:39 1:42 1:45  
TIME 0:02 0:02 0:02  
STABILIZED PERC. RATE = 2 MINUTES

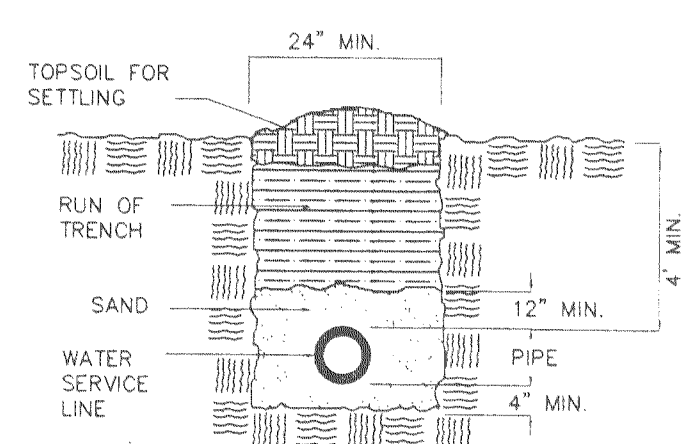
###### DEEP HOLE TESTS

D5 2'-6" DEEP 11/7/08  
0-2" TOPSOIL  
2"-30" SILTY CLAY LOAM  
NO ROCK, NO WATER, NO MOTTLING

D6 2'-6" DEEP 11/7/08  
0-2" TOPSOIL  
2"-30" SILTY CLAY LOAM  
NO ROCK, NO WATER, NO MOTTLING

#### WELL NOTES

- PUMP SETTING TO BE ESTABLISHED IN FIELD  
MIN. YIELD TO BE 5 G.P.M. (STABILIZED RATE)
- GROUTING AROUND PIPE CASING SHALL EXTEND  
AT LEAST 40' BELOW GRADE AND SHALL BE  
NEAT CEMENT GROUT. GROUT SHALL BE PLACED  
UPWARD FROM THE BOTTOM AS ONE CONTINUOUS  
MASS.  
MIX: 1 BAG CEMENT (94 lb.) & 5 TO 6 GAL. WATER.
- STEEL CASING: 6" DIA. (IN ACCORDANCE WITH  
A.W.W.A. STANDARD A100-MOST CURRENT EDITION)  
DRILL HOLE 10" DIA. THE MINIMUM CASING DEPTH  
SHALL BE THROUGH THE OVERBURDEN AND AT LEAST  
10' INTO BED ROCK. CASING SHALL BE GROUTED INTO  
FIRM BED ROCK. UNDER NO CONDITION SHOULD CASING  
AND GROUTING EXTEND LESS THAN 40' DEEP.
- USE OF TEMPORARY OUTSIDE CASING MAY BE  
NECESSARY TO PERMIT GROUTING WHERE CAVING IN  
IS ENCOUNTERED.
- EXPECTED SOIL STRATA (REFERENCE ONLY)



WATER LINE TRENCH DETAIL

#### WELL DETAIL-TYPICAL



JONATHAN CELLA P.E. LIC. NO. 085069

#### REVISIONS:

- 1/18/08 (ZONING DATA TABLE)
- 2/29/08 (PB COMMENTS 2-27-08)
- 8/6/08 PER ZBA COMMENTS
- 11/3/08 FOR PLANNING BOARD WORK SESSION
- 1/9/09 FOR PLANNING BOARD RESUBMISSION

#### PERCOLATION TEST DATA

##### LOT # 3

P1 12" DEEP 07/02/08  
ELAPSED TIME  
6:50  
10:43  
14:30  
15:17  
STABILIZED PERC. RATE = 15 MINUTES

##### LOT # 2

P2 12" DEEP 07/02/08  
ELAPSED TIME  
16:49  
27:43  
28:31  
STABILIZED PERC. RATE = 29 MINUTES

##### LOT # 2

P3 12" DEEP 08/11/08  
ELAPSED TIME  
3:22  
9:10  
11:30  
24:50  
25:32  
STABILIZED PERC. RATE = 26 MINUTES

##### LOT # 2

P4 12" DEEP 08/11/08  
ELAPSED TIME  
1:15  
6:56  
11:15  
16:56  
17:35  
STABILIZED PERC. RATE = 18 MINUTES

#### DEEP HOLE TEST DATA

##### LOT # 3

D1 6'-0" DEEP 06/03/08  
0-72" SILTY CLAY LOAM  
NO ROCK, NO WATER, NO MOTTLING

D2 4'-0" DEEP 06/03/08  
0-48" SILTY CLAY LOAM  
NO ROCK, NO WATER, NO MOTTLING

##### LOT # 2

D3 4'-2" DEEP 06/03/08  
0-4" TOPSOIL  
4"-50" SILTY CLAY LOAM  
NO ROCK, NO WATER, NO MOTTLING

D4 3'-10" DEEP 06/03/08  
0-6" TOPSOIL  
6"-46" SILTY CLAY LOAM  
NO ROCK, NO WATER, NO MOTTLING

#### SEPTIC DESIGN

- DAILY FLOW RATE: 3 BEDROOMS x 130 GPD/BEDROOM = 390 GPD
- SEPTIC TANK SIZE = 1,250 GALLONS
- STABILIZED PERCOLATION RATE @ 24" = 9 MINUTES PER INCH
- SEPTIC TO BE INSTALLED USING ELJEN IN-DRAIN SYSTEMS
- TOTAL REQUIRED ABSORPTION TRENCH LENGTH = 217 LF x 1/3 = 73 LF
- TOTAL PROVIDED ABSORPTION TRENCH LENGTH = 3 ROWS OF 7 (4') UNITS = 84 LF

#### SEPTIC DESIGN CRITERIA

##### LOT # 2 SEPTIC DESIGN

- DAILY FLOW RATE: 3 BEDROOMS x 130 GPD/BEDROOM = 390 GPD
- SEPTIC TANK SIZE = 1,250 GALLONS
- STABILIZED PERCOLATION RATE @ 24" = 29 MINUTES PER INCH
- SEPTIC TO BE INSTALLED USING ELJEN IN-DRAIN SYSTEMS
- TOTAL REQUIRED ABSORPTION TRENCH LENGTH = 325 LF x 1/3 = 108 LF
- TOTAL PROVIDED ABSORPTION TRENCH LENGTH = 3 ROWS OF 10 (4') UNITS = 120 LF
- FILL REQUIRED = SHALLOW TRENCH SYSTEM (SEE DETAILS SHEET 3)

##### LOT # 3 SEPTIC DESIGN

- DAILY FLOW RATE: 3 BEDROOMS x 130 GPD/BEDROOM = 390 GPD
- SEPTIC TANK SIZE = 1,250 GALLONS
- STABILIZED PERCOLATION RATE @ 24" = 26 MINUTES PER INCH
- SEPTIC TO BE INSTALLED USING ELJEN IN-DRAIN SYSTEMS
- TOTAL REQUIRED ABSORPTION TRENCH LENGTH = 325 LF x 1/3 = 108 LF
- TOTAL PROVIDED ABSORPTION TRENCH LENGTH = 4 ROWS OF 8 (4') UNITS = 128 LF
- FILL REQUIRED = SHALLOW TRENCH SYSTEM (SEE DETAILS SHEET 3)

#### GRAPHIC SCALE

( IN FEET )  
1 inch = 30 ft.

Existing Well 511.4  
Elev = 518.0

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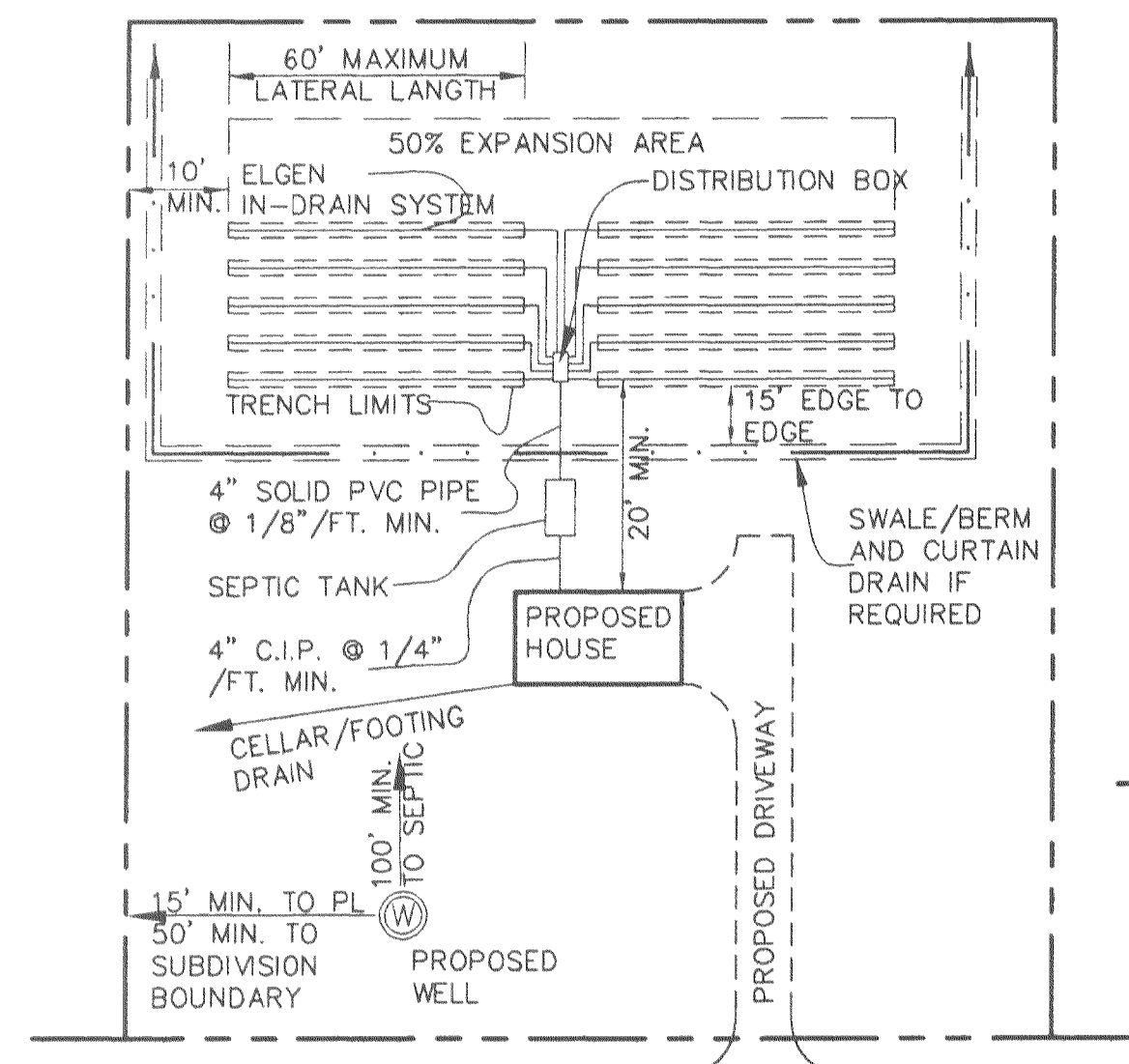
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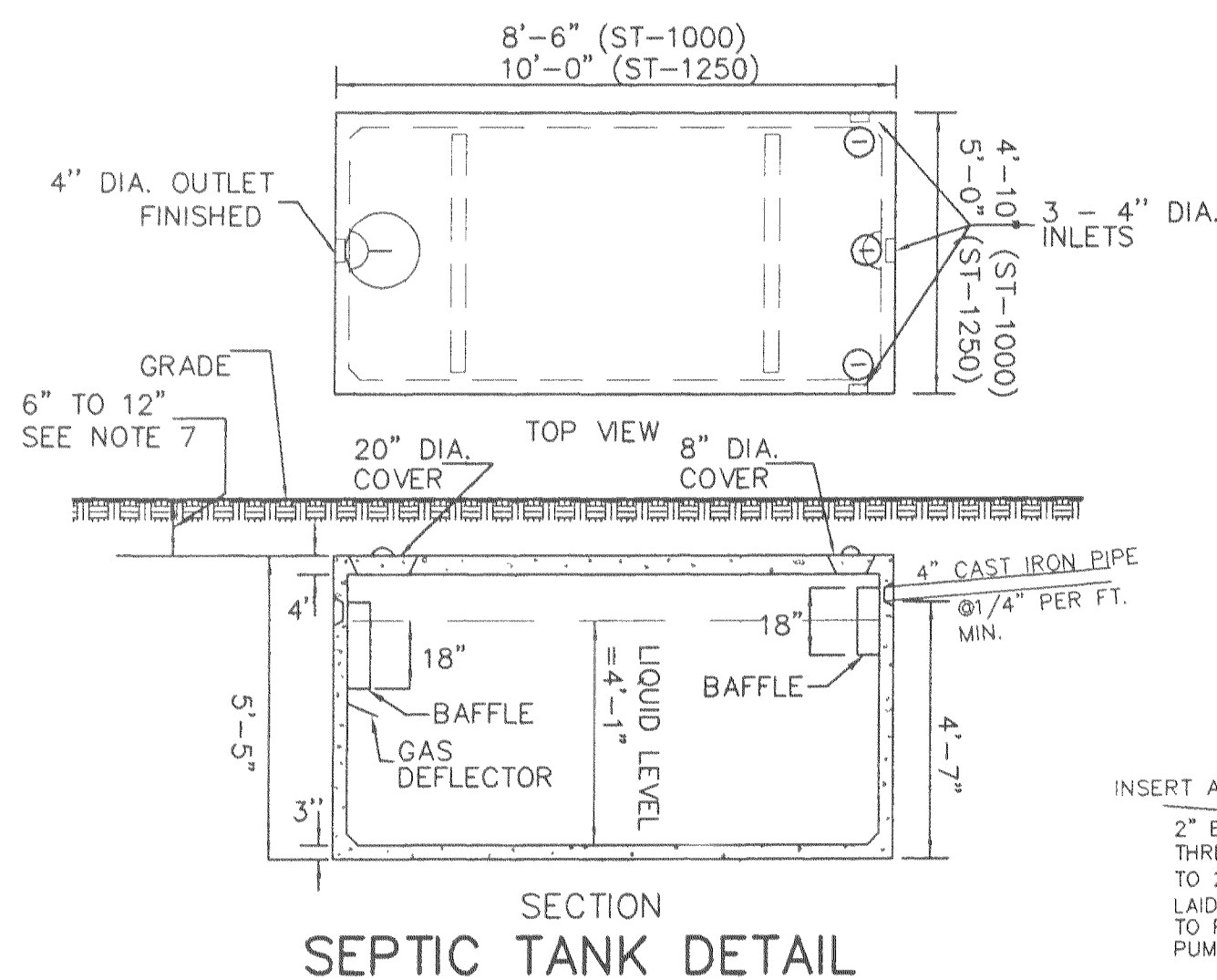
Existing Well 511.4  
Elev = 518.0





### TYPICAL LOT LAYOUT

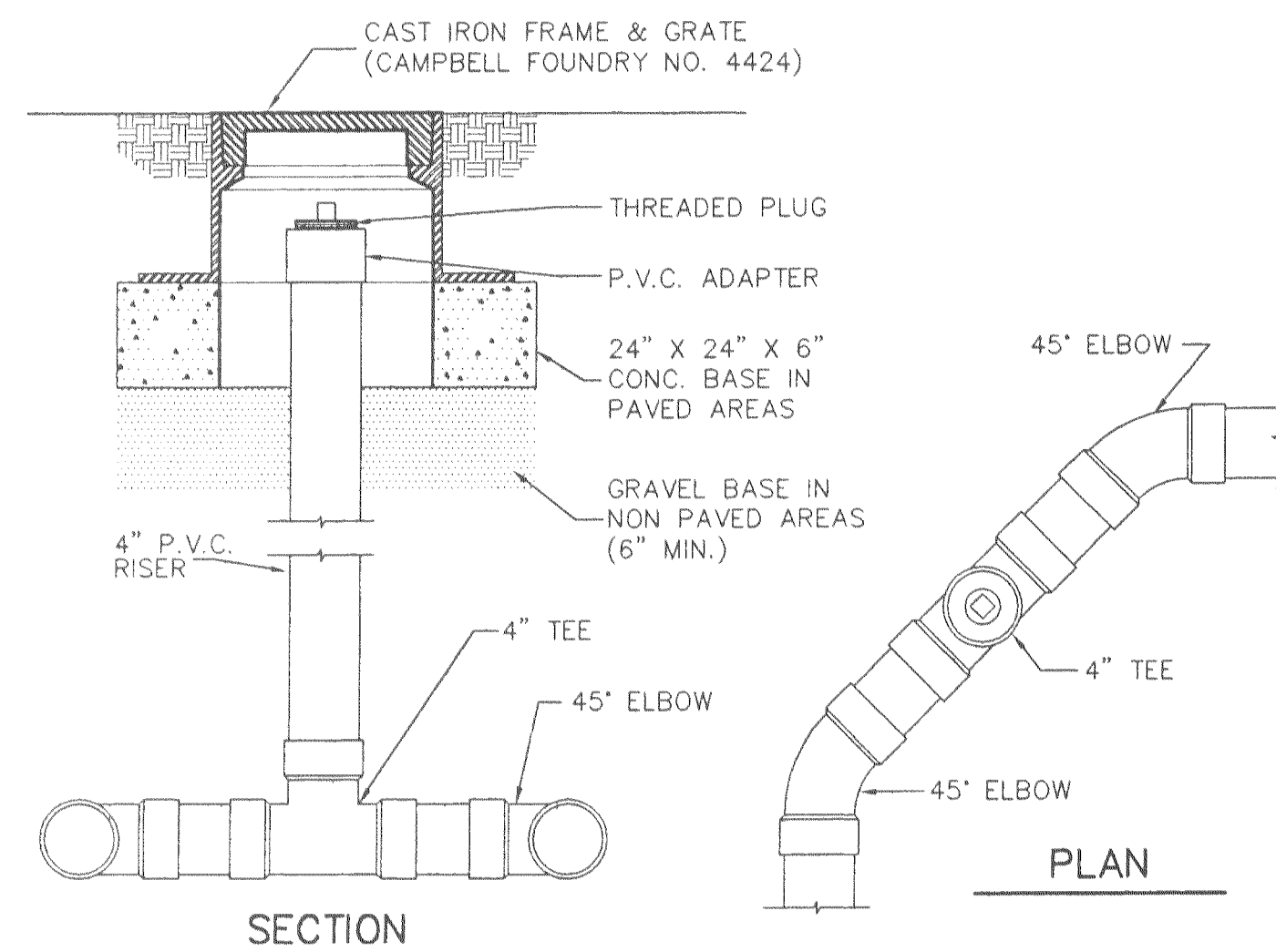
LEGEND:  
C.I.P. = CAST IRON PIPE  
P.V.C. = POLY VINYL CHLORIDE



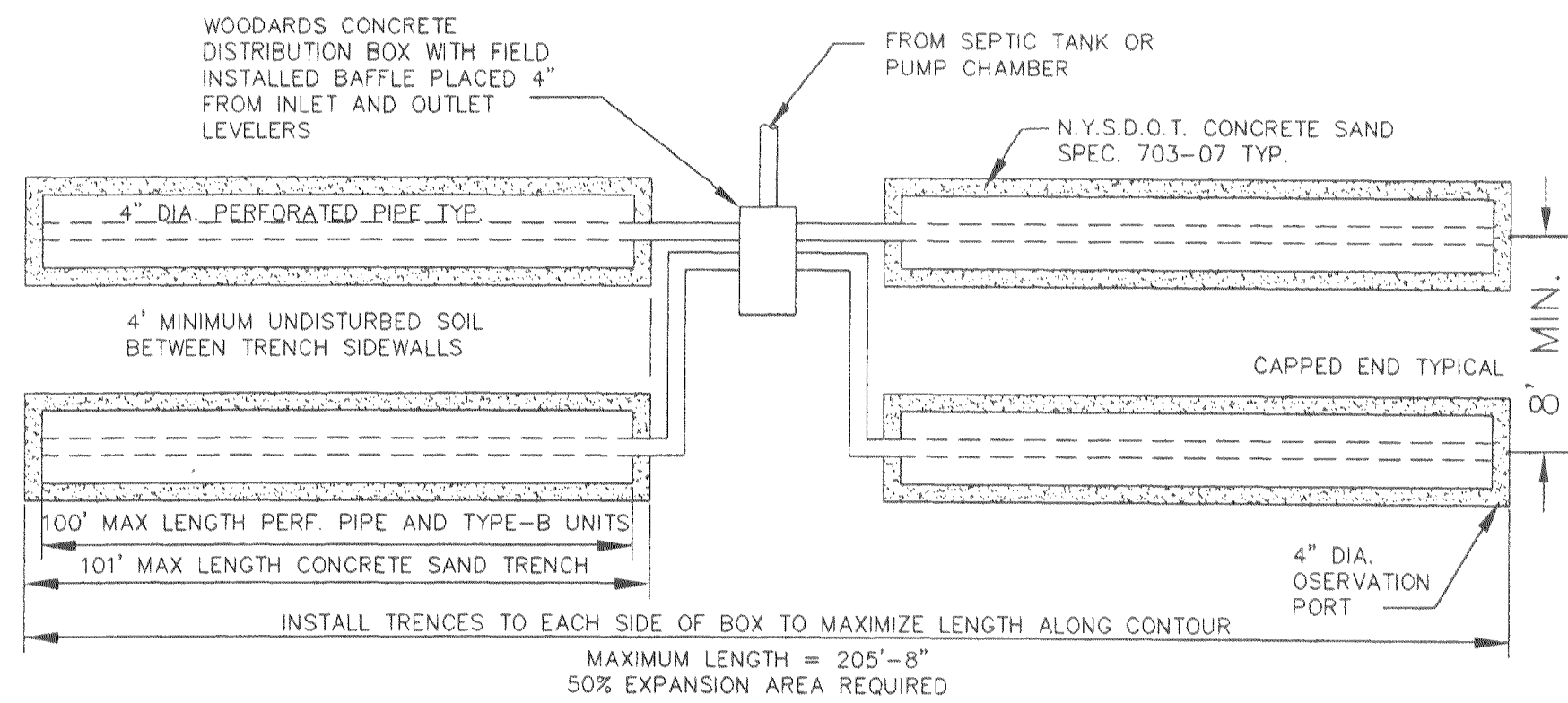
### SEPTIC TANK DETAIL

#### SEPTIC TANK NOTES:

1. USE SEPTIC TANKS MANUFACTURED BY WOODARDS CONCRETE PRODUCTS INC. OR APPROVED EQUAL.
2. MINIMUM CONCRETE STRENGTH - 4,000 P.S.I. AT 28 DAYS.
3. STEEL REINFORCEMENT - 6" X 6" X 10 ga. WELDED WIRE MESH.
4. CONSTRUCTION JOINT SEALED WITH BUTYL RUBBER BASED CEMENT.
5. PIPE CONNECTION - "POLY-LOC" SEAL
6. BOTTOM OF SEPTIC TANK SHALL REST UPON A LEVEL 3" THICK MIN. BED OF COMPACTED SAND OR PEA GRAVEL.
7. TOP OF SEPTIC TANK SHALL BE 12" MAX BELOW FINISHED GRADE.
8. BAFFLE AT END INLET MAY BE RELOCATED TO SIDE INLETS AS NECESSARY.

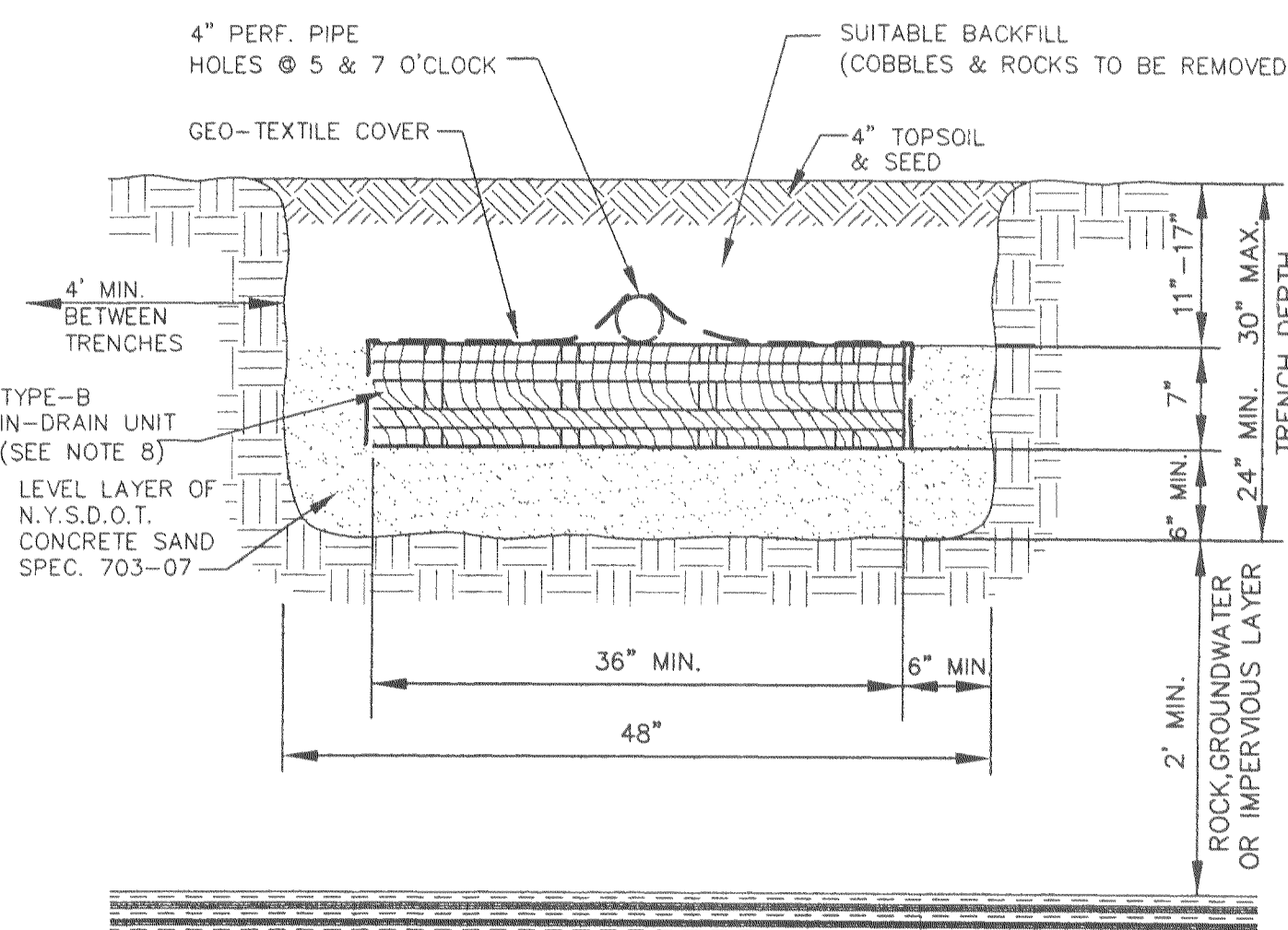


### SEWER CLEANOUT

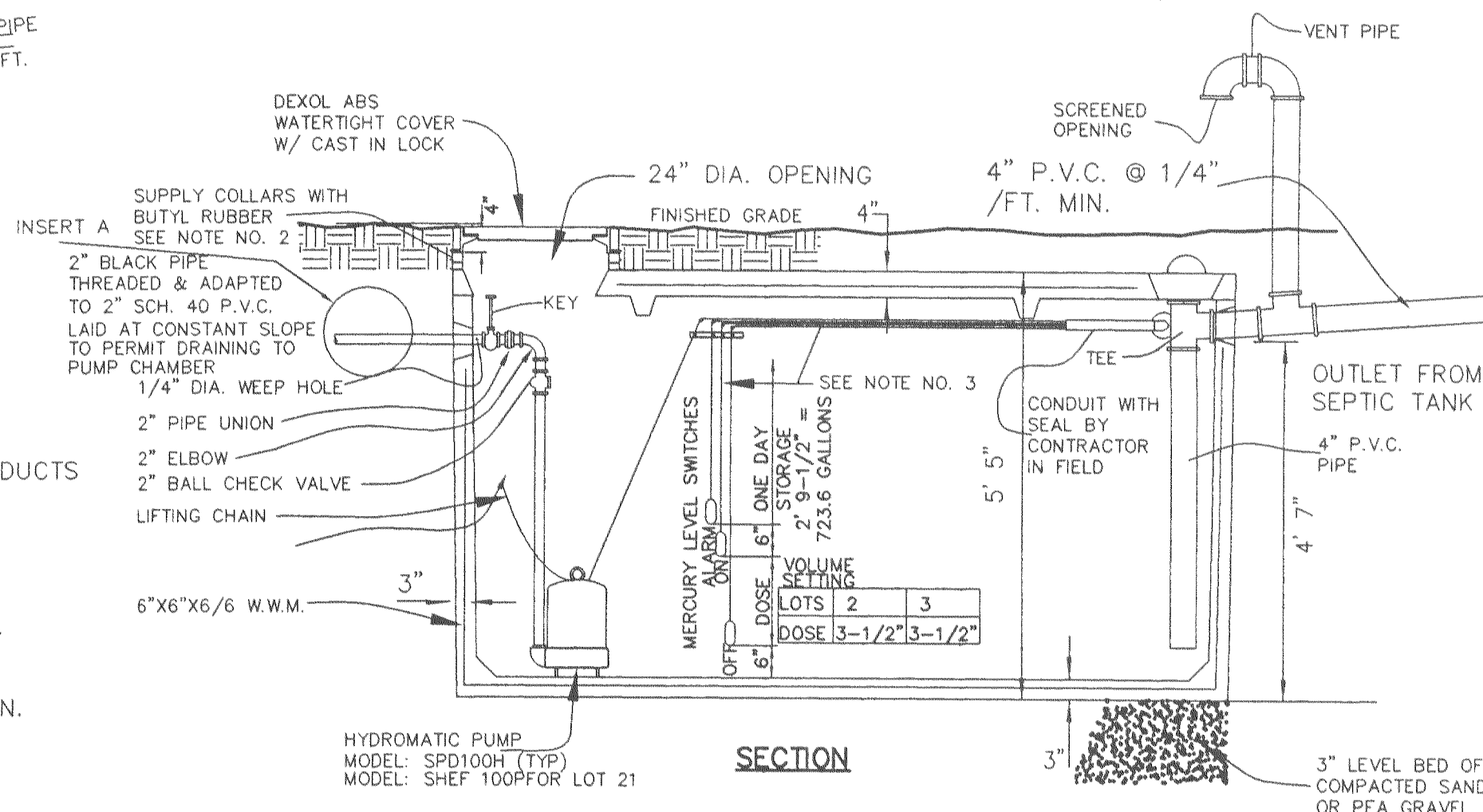


### ELJEN IN-DRAIN ABSORPTION TRENCH CONFIGURATION

N.T.S.  
INSTALLER SHALL NOT DEVIATE FROM THE DESIGN SHOWN ON THE PLAN.



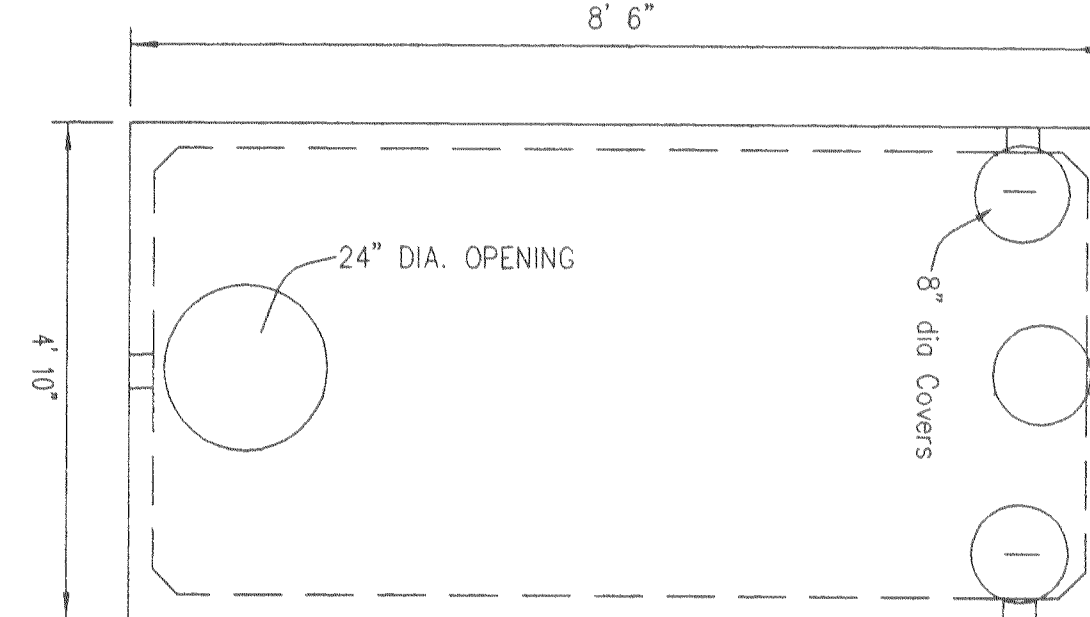
### "ELJEN IN-DRAIN" TRENCH DETAIL



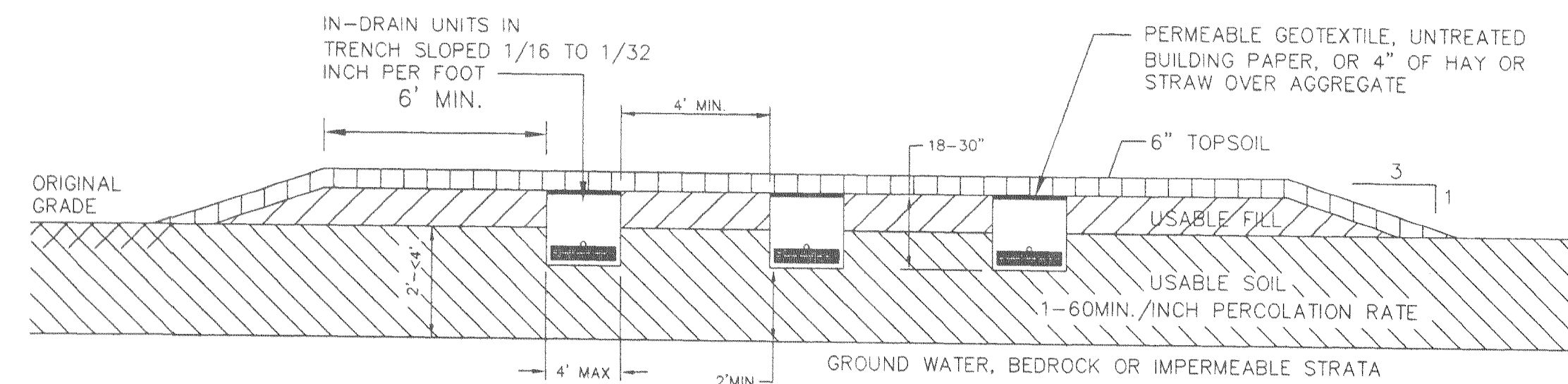
### PUMP CHAMBER DETAIL

#### NOTES:

1. THE PUMP CHAMBER IS A SEPTIC TANK MODEL ST-1000 AS MANUFACTURED BY WOODARDS CONCRETE PRODUCTS.
2. COLLAR QUANTITY AS REQUIRED.
3. WIRE: 12-3 GAUGE, MUST MEET NATIONAL ELECTRICAL CODE (N.E.C.) SPECIFICATIONS
4. PUMP CHAMBER CAPACITY = 21.6 GAL. PER INCH
5. CONCRETE TO BE 4,000 P.S.I.
6. PUMP WILL BECOME DISABLED UPON A LOW WATER CONDITION.
7. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (N.E.C.) SPECIFICATIONS
8. PUMP SHALL BE HYDRAMATIC MODEL NO. SP50AH. SINGLE PHASE 115 VOLT 6.1 AMP.
9. CONTROL PANEL AS SPECIFIED BY HYDRAMATIC PUMPS TO MATCH PUMP. CONTROL PANEL TO INCLUDE ALARM LIGHT AND HORN. ALARM HORN SHALL BE AUDIBLE TO PERSONS INSIDE THE DWELLING, 100DB MIN.
10. THE TANKS INVERT OUT AND ANY OPENING FOR THE FORCEMAIN MUST BE SEALED.



### PUMP CHAMBER PLAN VIEW



NOTES: BOTTOM OF TRENCHES SHALL NOT BE ABOVE ORIGINAL USABLE SOIL AND TRENCHES SHOULD PREFERABLY BE AT LEAST 6" BELOW ORIGINAL GRADE.

USABLE FILL SHOULD HAVE A PERCOLATION RATE SIMILAR TO BUT NOT FASTER THAN THE USABLE SOIL PERCOLATION RATE.

MAXIMUM DEPTH OF USABLE FILL PLUS SIX INCHES OF TOPSOIL SHALL NOT EXCEED 30 INCHES.

TRENCH BOTTOMS SHALL BE LEVEL. TRENCHES SHALL BE PARALLEL TO GROUND CONTOURS.

ON SLOPED SITES DIVERSION DITCH SHALL BE CONSTRUCTED UPHILL FROM TO PREVENT SURFACE RUNOFF FROM ENTERING THE FILL.

FILL SHALL EXTEND AT LEAST SIX FEET BEYOND ENDS OF TRENCHES BEFORE STARTING 1 ON 3 EDGES OF FILL.

### SHALLOW ABSORPTION TRENCH DETAIL (ELJEN)

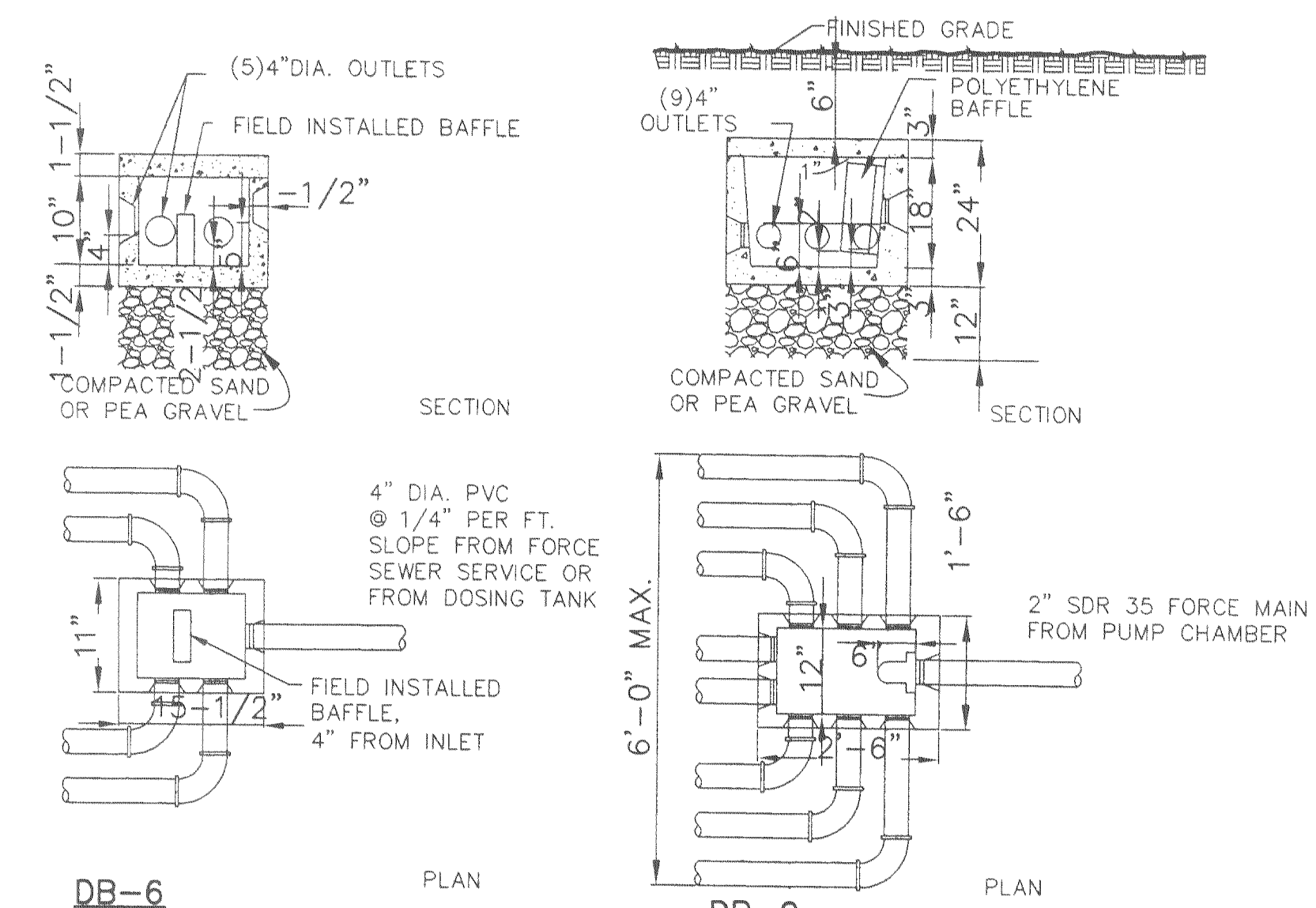
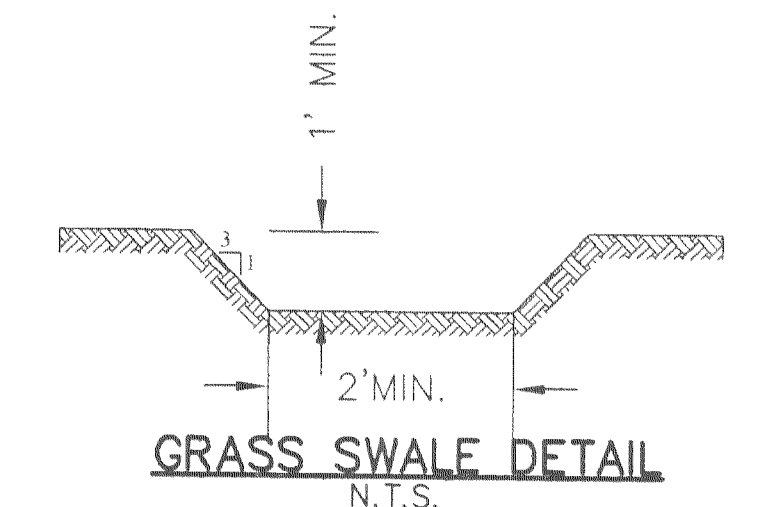
#### ELJEN TRENCH NOTES:

1. DO NOT INSTALL TRENCHES IN WET SOIL.
2. RAKE SIDES AND BOTTOM OF TRENCHES PRIOR TO PLACING SAND.
3. THE ENDS OF ALL DISTRIBUTION PIPES ARE TO BE PLUGGED.
4. MINIMUM DISTANCE BETWEEN TRENCHES = 4"
5. MAXIMUM LENGTH OF LATERALS = 100'
6. INSTALLER SHALL UTILIZE WIRE HOOPS PROVIDED WITH THE MODULES TO SECURE 4" DIA. PERF. PIPE TO MODULES.
7. INSTALLER SHALL NOT DEVIATE FROM THE DESIGN SHOWN ON THE PLAN.
8. PIPES AND ELJEN UNITS TO BE LAID LEVEL IF SYSTEM IS DOSED OR PUMPED. UNITS AND PIPE TO HAVE A SLOPE OF 1/16" TO 1/32" PER FOOT IF SYSTEM IS GRAVITY FED.

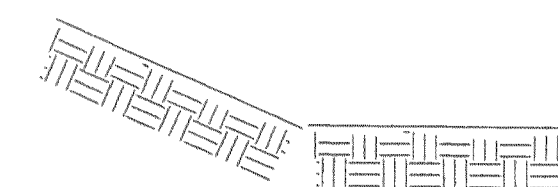
ELJEN IN-DRAIN SYSTEMS MUST BE INSTALLED BY A CERTIFIED ELJEN CONTRACTOR

### NYSDOT SAND SPECIFICATION 703-07

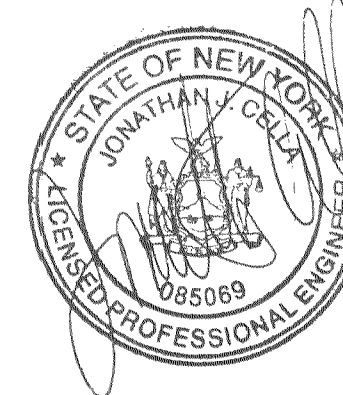
NO. 200 (WET)	PERCENT PASSING BY WEIGHT	
	MINIMUM	MAXIMUM
3/8 INCH	100	
NO. 4	90	100
NO. 8	75	100
NO. 16	50	85
NO. 30	25	60
NO. 50	10	30
NO. 100	1	10
NO. 200 (WET)	0	3



### DISTRIBUTION BOX DETAIL



### INSERT A



JONATHAN CELLA P.E. LIC. NO. 085069

#### REVISIONS:

1. 1/18/08 (ZONING DATA TABLE)
2. 2/29/08 (PB COMMENTS 2-27-08)
3. 8/6/08 PER ZBA COMMENTS
4. 11/3/08 FOR PLANNING BOARD WORK SESSION
5. 1/9/09 FOR PLANNING BOARD RESUBMISSION

SHEET NO. 3 OF 4

SCALE: AS NOTED

DATE: NOVEMBER 28, 2007

JOB NO.: 5270330 DRAWN BY: J.F.

### DETAILS

SUBDIVISION  
FOR  
ED BIAGINI

TOWN NEW WINDSOR

ORANGE COUNTY NEW YORK

ZIMMERMAN ENGINEERING & SURVEYING, P.C.  
A DIVISION OF KC ENGINEERING AND SURVEYING, P.C.

5 CORPORATE DRIVE SUITE 100  
CENTRAL VALLEY, NY 10917

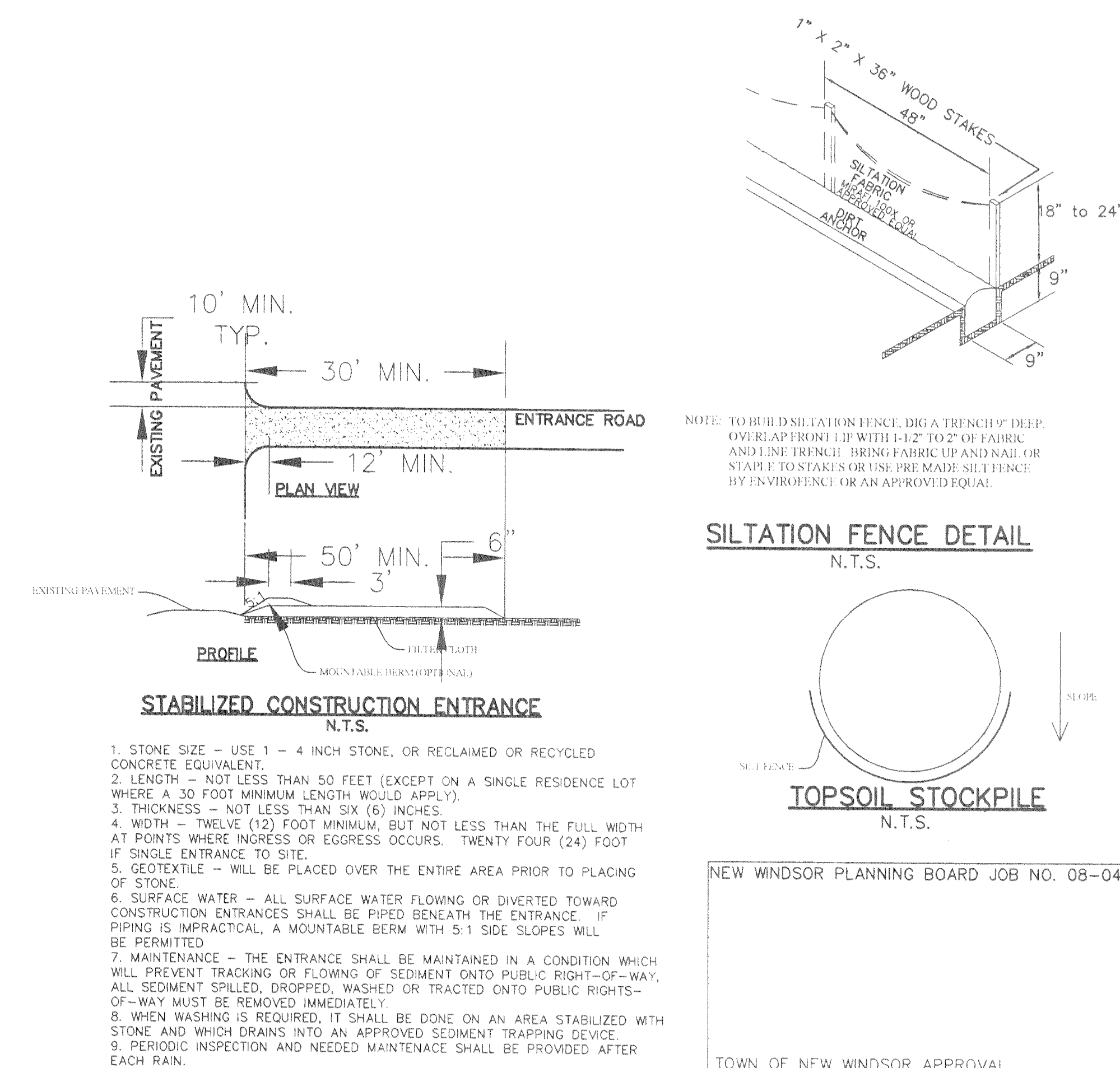
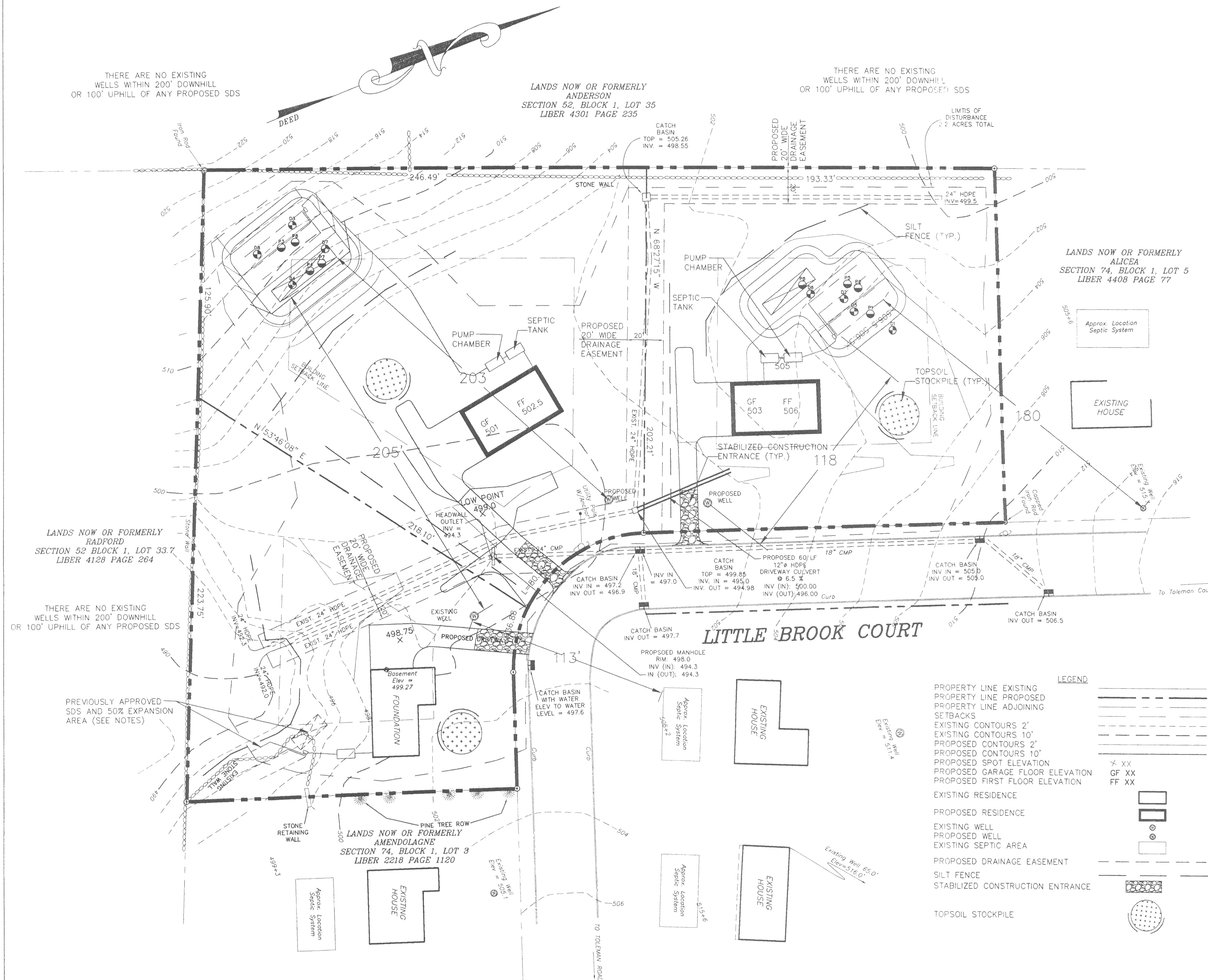
PHONE: (845)928-2265 FAX: (845)928-3780 E-MAIL: zimeng@frontiernet.net

NEW WINDSOR PLANNING BOARD JOB NO. 08-04

TOWN OF NEW WINDSOR APPROVAL

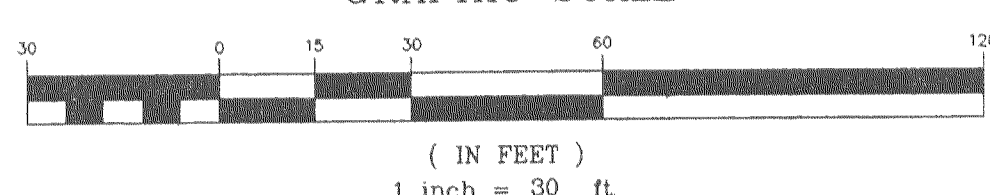


- EROSION AND SEDIMENTATION CONTROL NOTES
1. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED IN CONFORMANCE WITH GUIDELINES AND PROCEDURES SET FORTH IN THE MOST CURRENT EDITION OF "NEW YORK STATE GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL."
  2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED FOR MORE THAN 14 DAYS, AND ARE NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL IMMEDIATELY BE STABILIZED BY HYDRO-SEEDING AND/OR MULCHING WITHIN 48 HOURS FOLLOWING COMPLETION OF ROUGH GRADING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, WOODCHIPS, OR APPROVED EQUIVALENT. THE SEEDING SHALL BE DONE AS FOLLOWS:  
a. FERTILIZER - ALL FERTILIZER SHALL BE APPLIED AT THE RATE OF 600 LBS/ACRE, USING 5-10-10 OR EQUIVALENT.  
b. SEED - ANNUAL OR PERENNIAL RYE GRASS APPLIED AT THE RATE OF 30 LBS/ACRE, OR CERTIFIED "AROSTOOK" WINTER RYE AT 100 LBS/ACRE.  
c. MULCH - SALT HAY OR SMALL GRAIN STRAW APPLIED AT A RATE OF 90LBS/1000 S.F. OR 2 TONS/ACRE, AND ANCHORED WITH WOOD FIBER MULCH OF 500-700 LBS/ACRE.
  3. ANY EXPOSED AREAS LEFT UNDISTURBED FOR MORE THAN TEN DAYS SHALL RECEIVE PERMANENT VEGETATIVE COVER IN COMBINATION WITH A SUITABLE MULCH.
  4. CUT OR FILL SLOPES STEEPER THAN 3:1 (HORIZONTAL:VERTICAL) SHALL BE STABILIZED IMMEDIATELY AFTER GRADING.
  5. PAVED AREAS SHALL BE KEPT CLEAN AT ALL TIMES.
  6. THE SITE AT ALL TIMES SHALL BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO EROSION AND SEDIMENTATION CONTROL MEASURES.
  7. ALL STORM DRAINAGE OUTLETS SHALL BE STABILIZED BEFORE DISCHARGE POINTS BECOME OPERATIONAL.
  8. SNOW FENCING SHALL BE PROVIDED TO PROTECT EXISTING TREES TO BE SAVED, WETLANDS, AND OTHER SENSITIVE AREAS.
  9. ALL SITE CONSTRUCTION ACCESS AREAS SHALL HAVE A MAINTAINED STABILIZED CONSTRUCTION ENTRANCE.
  10. LAND DISTURBANCE SHALL NOT EXCEED WHAT IS NECESSARY TO CONSTRUCT PROPOSED FEATURES SHOWN ON THIS MAP.
  11. SILT FENCING SHALL BE USED TO DEFINE THE LIMITS OF DISTURBANCE.
  12. SHALL CONSTRUCTION BE STOPPED PRIOR TO COMPLETION FOR ANY PROLONGED PERIODS, THE CONTRACTOR SHALL STABILIZE DISTURBED AREAS BY HYDROSEEDING OR OTHER MEANS ACCEPTABLE TO THE OWNERS FIELD REPRESENTATIVE.
  13. STORMWATER FROM DISTURBED AREAS SHALL BE PASSED THROUGH REQUIRED EROSION CONTROL PRACTICES PRIOR TO DISCHARGE FROM DISTURBED AREAS AND/OR INTO EXISTING STORMWATER COLLECTION FACILITIES.
  14. WATER SHALL BE APPLIED TO SURFACE GRADING OPERATIONS TO CONTROL DUST, MINIMIZE SOIL TRANSPORT, AND MAINTAIN AIR QUALITY. WATERING SHALL BE AS REQUIRED UNTIL GRADED AREAS ARE STABILIZED.
  15. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL DEVICES FOR EFFECTIVENESS AFTER STORMS WITH A RAINFALL OF ONE INCH OR MORE. THESE DEVICES SHALL BE REPAIRED AND/OR REPLACED AS NECESSARY TO PROVIDE PROPER EROSION AND SEDIMENTATION CONTROL.
  16. EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE REPLACED AND/OR REPAIRED A MAXIMUM OF FOUR (4) HOURS AFTER DISCOVERY OF SUCH DEFICIENCY.
  17. THE CONTRACTOR SHALL BE PREPARED TO IMPLEMENT INTERIM DRAINAGE CONTROLS AND EROSION CONTROL MEASURES AS MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.
  18. THE CONTRACTOR SHALL MAKE AVAILABLE ALL EQUIPMENT, MATERIALS, AND LABOR NECESSARY TO EFFECT EMERGENCY EROSION CONTROL AND DRAINAGE IMPROVEMENT WITHIN FOUR HOURS OF ANY IMPENDING EMERGENCY SITUATION.
  19. THE CONTRACTOR SHALL MAKE A FINAL DAILY INSPECTION, CLEAN ALL CROSS CULVERTS, AND SWEEP OFF ROADWAYS AS NECESSARY.
  20. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE LEFT IN PLACE AND MAINTAINED UNTIL FINAL ACCEPTANCE OF CONSTRUCTION BY THE OWNER AND PERMIT ISSUING MUNICIPALITY.
  21. THE MUNICIPALITY AND/OR SITE ENGINEER MAY REQUEST ADDITIONAL MEASURES AFTER CONSTRUCTION BEGINS.



NOTE  
THIS PROJECT IS THE CONSTRUCTION OF SINGLE FAMILY RESIDENCES AND  
WILL HAVE A TOTAL LIMIT OF DISTURBANCE OF 2.2 ACRES. BASED UPON  
CURRENT STANDARDS AS SET FORTH IN THE APRIL 2008 EDITION OF THE  
NYSDEC PUBLICATION "NEW YORK STATE STORMWATER MANAGEMENT DESIGN  
MANUAL" THIS EROSION AND SEDIMENTATION CONTROL PLAN SERVES AS THE  
SWPPP (STORMWATER POLLUTION PREVENTION PLAN) FOR THIS PROJECT.

GRAPHIC SCALE



	REVISIONS: 1. 1/18/08 (ZONING DATA TABLE) 2. 2/29/08 (PB COMMENTS 2-27-08) 3. 8/6/08 PER ZBA COMMENTS 4. 11/3/08 FOR PLANNING BOARD WORK SESSION 5. 1/9/09 FOR PLANNING BOARD RESUBMISSION	SHEET NO. 4 OF 4	SUBDIVISION FOR ED BIAGINI TOWN NEW WINDSOR ORANGE COUNTY NEW YORK
	SCALE: AS NOTED	DATE: NOVEMBER 28, 2007	
	JOB NO.: 5270330	DRAWN BY: J.F.	
	ZIMMERMAN ENGINEERING & SURVEYING, P.C. A DIVISION OF KC ENGINEERING AND SURVEYING, P.C. 5 CORPORATE DRIVE SUITE 100 CENTRAL VALLEY, NY 10917 PHONE: (845) 928-2265 FAX: (845) 928-3780 E-MAIL: zimeng@frontiernet.net		